AD-A106 713

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS-FTC F/6 %/1 19304D MLRS MISSILE NUMBER BN050 ROUND NUMBER V-187/MD-41.(U)

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ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

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Round Number V-187/MD-41	6. PERFORMING ORG. REPORT NUMBER
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26 ABSTRACT (Continue on reverse able if recovering and identity by block number)	
Meteorological data gathered for the launching of	the 19304D MLRS,
Missile Number BN050, Round Number V-187/MD-41 are	
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Acces	sion Fo	r
NTIS	GRA&I	X
DTIC	TAB	
Unann	ounced	
Justi	fication	n
	ibution labilit	·
	Avail	
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INTRODUCTION

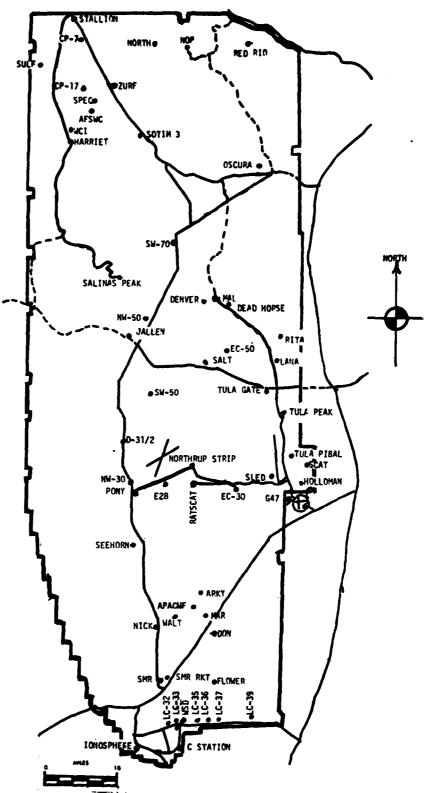
19304D MLRS	•	Missile N	umber B i	N050		, Pound	NortV-	187/MD-41
was launched from_ at 1100 MDT	LC-33		, White	Sands 1	tissile	Pange (W	SMR). The	w Mexico.
1100 MDT	•							
			DISCUS	SION				
Meteorological data Team. Atmospheric S The data were obta	Sciences	laborato	ry (ASL), White				-
(°C), relative hum and cloud cover we (2) tower-mounted anemometer was also b. Upper	ce Standard idity, d re made Anemomet ometers o provid	at the cer data w at LC-33.	(^O C), d IC-33 ere pro Monit launch	vided for of w	(gm/m ³), Met Sirom exisind speci	Wind di ite at ^r sting pol ed and di	rection T-O minu Te-mounte irection	and speed tes. ed and from one
		<u>12</u>	TE AND	ALTITUD	<u>E</u>			
			-33 200					

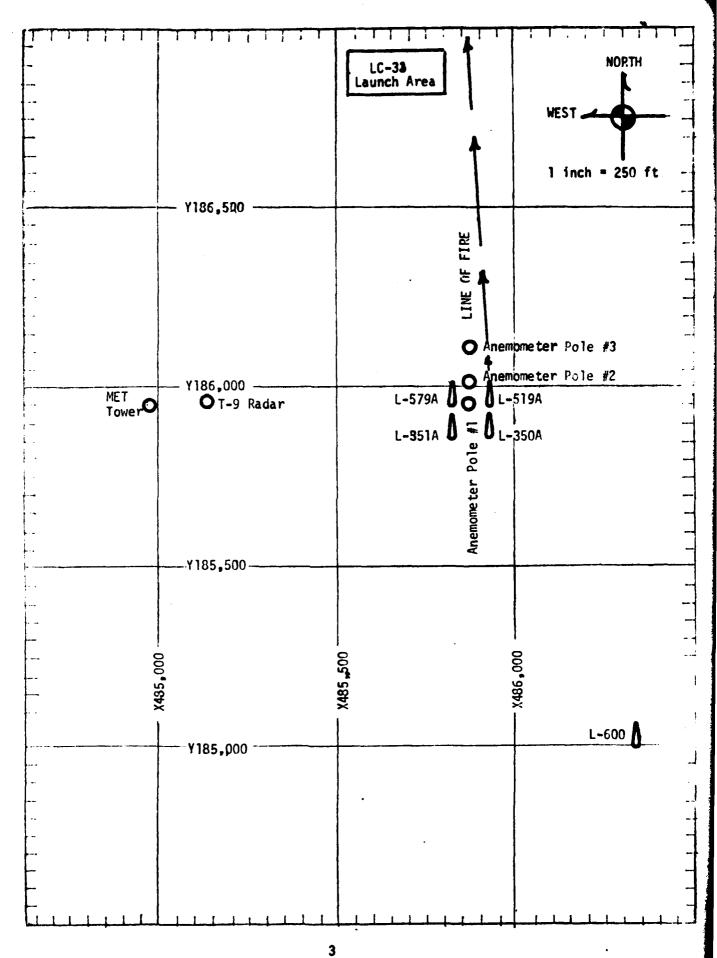
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

> SITE AND TIME WSD 0700 MDT

LC-37 0848 MDT WSD 0900 MDT LC-37 1000 MDT LC-37 1100 MDT

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

ABLE 1							S	STATION LC-33 F & A	33 E & A		
DATE 10	Sep	81					۵				
AVO	MONTH	TE THE	1				•	485,135,76	97.	^ 485,135,76 * 185,919.24 H= 3988.6	= 3988.6
TIME	PRESSURE	TEIMPE	ATURE	DEW P	TMIO	PELATIVE		D. D. C. T. C.	MIND		7.00.00
HDH	squ	OF OC	ပ	OF G	ပ		gm/mg	degs In	SPEED kts	degs In kts kts ITV	VISIBIL-
1100	000										
	2000		20.5		16.2	16.2 78	1046	340	05		15
			 -								
						1			,		
											

	2/Q 2 7/10	ייייייייייייייייייייייייייייייייייייייי	2 61 25 000	000°C2 T2 7											
		HGT	2 AC 112,000	300											
	1 LAYF	AMT TYPE HGT	ဍ		•										
	l 3rd	3rd	AMT	2		-									
	~	нст	Sc 5,000												
SOLID	2nd LAYER	2nd LAYER	2nd LAYER	J LAYEF	1 LAYER	d LAYEF	d LAYE	d LAYE	TYPE	သွ			Ť	_	
)				AMT	2										
			ST 1,000												
	1st LAYER	TYPE	St												
	7	AM .	1					j							
	08STRUCTIONS	TO VISIBILITY													

PSYCHROMETRIC COMPUTATION	1100	20.2	17.5	2.7	16.2	78
PSYCHROMETR	TINE: MDT	ORY BULB TET.P.	WET BULB TEMP.	WET BULB DEPR.	DEW POINT	RELATIVE HUMID.

POLE #1 X485,87 Y185,95 H4018.7 38.7 ft	4.29 8.90 4		POLE #2 X485,874 Y186,012 H4033.53 53.0 ft	4.93 2.00 7		POLE # X485,87 Y186,11 H4063.9 83.6 ft	7.29 6.06 2	
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DI R DE G	SPET N KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30		CALM	T - 30		CALM	T - 30	357	04
T-20	014	01	T-20		CALM	T -20	357	04
T-10	031	03	T-10	353	02	T-10	355	04
T0.0	035	03	T0.0	017	03	T 0.0	357	04
T+10	033	03	T+10	023	03	T+10	360	03

TABLE 3	LC-33	METE OROLOGICAL	TOWER	ANEMOMETER	MEASURED	WINDS	(202	FT	TOWER)
---------	-------	-----------------	-------	-------------------	----------	-------	------	----	--------

LEVEL #1, 12 X484,982.64		73, H3983.00 (base)	LEVEL #2, 62 X484.982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
Т -30	293	02	T - 30	276	01
T - 20	294	01	T -20	280	02
T-10	293	02	T-10	281	02
го.о	279	02	T 0.0	319	02
T+10	278	02	T +10	326	01

LEVEL #3, 10 X484,982.64	02 FEET 1185,057.7	3, H3983.0J (base)	LEVEL #4, 20 X484,982, Y1		39 83.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	300	01	T· -30	005	03
T -20	300	02	T -20	014	04
T -10	300	01	T -10	015	03
10.0	300	02	T 0.0	018	03
T+10	302	02	T +10	020	02

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 10 September 1981

SITE: LC 33

TIME: 1100 MDT

WSTM COORDINATES:

 $\chi = 484,837.34$

Y = 184,124.44

H= 3,975.57

SITE: Nick

TIME: 1100 MDT

WSTM COORDINATES:

 $\chi = 470,734.56$

Y = 255,775.64

4,126.57

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS	LAYER MIDPOINTMETEPS_AGL	DIPECTION DEGREES	SPET D KNOTS
SURFACE	340	02	SURFACE	330	06
150	032	02	150	322	80
210	042	02	210	320	07
270	054	02	270	314	06
330	065	02	330	321	04
390	075	01	390	308	06
500	237	01	500	306	06
650	268	06	650	302	07
800	293	09	800	327	10
950	314	09	950	004	10
1150	357	13	1150	356	15
1350	005	13	1350	800	20
1550	001	14	1550		
1750	004	17	1750		
2000	005	06	2000		

Data obtained from Double Theodolite Tracked Pilot-balloon observation

Data obtained from RAPTS-T-9 radar tracked pilot-balloon observation

AIMING AND T-TIME COMPUTER MET MESSAGES

WSD 0700	0 MDT	LC-37 08	848 MDT	WSD 0900	MDT
METCM132	4064	METCM1324	1063	METCM1324	064
10130012	2880	101480124	879	101500122	
00018001	28770880	00000000	29220879	00000000	29080881
01051007	28870870	01006006	28980869	01044006	29110870
02013006	29040845	02015004	29120844	02018005	29160845
03544005	28950806	03553007	29040805	03552009	29040807
04594012	28800760	04628014	28940759	04624013	28930761
05626012	28550716	05630010	28640715	05006011	28660717
06569006	28180674	06546008	28250674	06555009	28280675
0752 1005	27780634	07518009	27870634	07543007	27890635
08444009	27390596	08420009	27480596	08453009	27470 597
093 90011	27010560	09396010	27080560	09393012	27080561
10426018	26780526	10401016	26880526	10401016	26840527
11419018	26550493	11419017	26580493	11418018	26610494
12425021	26160448	12411021	26170447	12414021	26130449

LC-37 1	DOO MDT	LC-37 MDT	
METCM132			
	. •	METCM1324	1063
10160012	4880	101700124	880
00196003	29370880	00427002	29560880
01035005	29190869	01107002	29460869
02010004	29180844	02030003	29160844
03534007	29040806	03549007	28950806
04620012	28880759	04633013	28900760
05012011	28570716	05015011	28580716
06570007	28140674	06600007	28200674
07518009	27810634	07488007	27800634
08441011	27440596	08427012	27410596
09419014	27090560	09409016	27040560
10407015	26860526	10445009	26840526
11413017	26590493	11423013	26600494
12405023	26130447	12406021	26120448

"EODLTIC COOKDIMATES 32,40043 LAT DEG 106.37033 LON DEG																													
ATA	REL.HUM.	PERCENT		98.0	90.0	86.0	58.0	54.0	51.0	48.0	29.0	46.0	0.40	63.0	78.0	56.6	01.0	14.0	11.0	16.0	32.0	15.0	39.0	0.09	54.0	35.0	18.0	31.0	29.0
SIGNIFICANT LEVLL DATA 2530020589 WHITE SAIDS TABLE 6	TEMPERATURE		CENTIGRADE	12.5	14.3	11.4	6.3	3,0	2.8	7.5	-3.5	-7.1	7.71	-6.5	か。オー	-10.2	-11.3	-28.0	-32.3	-31.1	-24.0	-32.6	-23.8	-22.1	-24.8	-32.1	0.01-	-35.7	-30.3
SIGNIFI PH T	TEMP	AIR	DEGREES	12.8	15.9	13.7	14.4	12.6	12.7	10.3	3.8	3.4	1.7	ı	-1.6	-2.7	-5.0	9.4-	-6.8	-10-1	-10.6	-11.2	-12.8	-16.2	-17.8	-20.7	-25.5	-23.4	-24.6
T.			S MSL FEET	3989.0	4967.4	7072.8	7736.4	8748.2	9085.1	10351.5	12970.9	13334.9	14066.5	14813.9	15301.5	15952.3	17300.4	17498.0	19231.8	21115.9	21689.7	22071.2	22790.7	24086.6	24852.8	26289.9	27167.8	27609.7	28071.6
117VDL 3989.n0 FEET MSL 0700 HRS MDT	PRESSURE		MILLIBARS	₽+0+8	859.0	708.2	9.692	742.0	733.0	200.0	635.4	626.8	8.609	592.8	581.9	567.6	538.9	8.456	0.003	11•11941	0 · h5 +	447.2	9.964	412.6	0.004	377.2	363.8	357.2	350.4
STATION ALIITUDL 3. 10 SEP. Bl ASLENSIUM NO. 349																		8	3										

DETIC COOMDINATES 32.40043 LAT DEG 106.37033 LON DEG	INUEX OF REFRACTION		1.000305	1.000305	1.000303		1.000294	1.000287	1.000281	.00n27	•	1.000247	•	•	1.000228	•	1.000218	1.000215	1.000211	1.000208	1.000204	1.000200					701000°1		1.000171		1.000155	1.000152	1.000149		1.000144	1.000142	1.000140	1.000139	1.000135	1 · 000135	1.000134
EODETIC 32.40 106.37	TA SPEED KNOTS	•	1.0	1.0	1.8	5.6	3.5	4.6	6.2	8.5	10.8	11.8	13.1	12.5	11.6	7.6	8.1	7.0	6.1	5.3	# #	3.1	.	ָה ה	•	0 0		12.6	14.7	16.8	16.9	17.1	17.6	16.3	19.1	19.0	18.6	19.5	•	22.4	24.2
	WIND DAT DIRECTION DEGREES(IN)	· · · · · · · · · · · · · · · · · · ·	0.01	*• 6	353.4	347.5	オ・オナビ	325-4	310.9	315.9	319.7	330.0	347.9	351.3	352.6	346.3	338.1	329.d	321.0	314.4	203.9	507	201.0		7.047	4.24.0	228.5	224.5	227.6	251.4	235.9	₹38•5	230.5	235.1	234.5	235.5	₹37.3	2.965	6.042	-	541.7
AT 2.0	SPEED OF SOUND ANOTS		P60.4	6-099	662.9	004.7	0.499	663.4	662.7	bh2.1	1.299	9•199	9 000	628.9	659•1)	657.8	656.5	1.659	653.6	652.1	020.0	2.640	540.2	6.00	2000	10.00	541.00	040	639.1	630.6	637.8	0.250	630.3	635.3	634.3	033 •3	632.2	631.c	ו050	2.629	2.8.2
UPPER AIN UNI 2530020589 WHITE SANDS	DENSITY S GM/CUBIC METER		1002.4	1065.3	10401	1015.9	6.666	984.1	968.5	953.2	950.1	920.9	907.5	892.6	879.1	866.4	824 • 0	842.1	830.4	818.8	807.5	170.3	726	74.5	751.6	0.027	728.6	717.0	705-6	693.4	691.7	670.2	628.0	648·1	637 · b	627.3	617.1	7.909	595.4	586.5	577.4
	REL.HUM. PERCENT		0.0	6.76	93.8	89.9	89.0	88.0	87.1	86.1	0.89	5/•0	55.0	51.8	20.0	8 · 8 · 8	43.6	20.7	52.8	54.9	57.0	0.00	50°1	****	68.7	71.5	56.2	58.0	59.9	14.0	13.1	12.3	# P	11.	13.0	1 to 1	15.7	ø	ě,	•	£2.
MDT MDT	TEMPERATURE R DEWPOINT EES CENTIGRADE		C • 21	12.5	13.4	14.2	13.5	∿	12.2	11.5	? ·	9•0	4.2	0.0	1.8	.	÷ (6.	-1.5	-2.5	25.0		+ 4 0 1		. K	1	-10.3	-10.7	-11-1	-28.0	-29.2	-30 • 4	-31.7	-32.0	-31.6	-31.3	-31-1	-55.9	-30.6	-5e·4	-23.4
3989.no FEET _N SL 9 0700 HRS MDT	TEMP AIR DEGREES	3,60	0.71	2.2	† (* †)	6.01	15.3	3 • • 1 • • • 1	O • • •	13•8	7	6.0T	10.0	12.7	11.9		, i	\ . 0		0.0	04		-) e	-1.9	-2.8	-3.6	-4+5	9.4-		40.4	101	7 .	1.0	0.6	5	10.4		12.5	13.3
TITUDE NO. 38	PRESSURE HILLIBARS	Agost		7 · · · · · · · · · · · · · · · · · · ·	•)	6.000	7.610		790.5				7.00.0	0.72,	0.407	2.060	2000	6.0/0	028.0	646.7	0,54	611.3	5000	588.6	577.5		555.8	545.2	534-8	554.5	2.410	0.400 0.400				•			0.000	•
STATION ALTITUDE 10 SEP. 81 ASCENSION NO. 3	GEOMETRIC ALTITUDE ASL FEET	ACAG.		•	•	•		V-0000	0.0000	0.000/	0.000		0.000	9.000k	•00c.	J-00001	0000	-0007	1500.	2000	13000.0		140000	4500	5000	5500	•	10500.0	17000-0	17500.0	18000.0	U-0050T	1,000.0	0.00027			- 000		_	.0007	0.0000

"EODETIC COOKDINATES 32.40043 LAT DEG 106.37033 LON DEG	TNUEX OF REFRACTION	1.000132	1.000131	1.000125	1-000123	1.000120	1.000114	1.000113
EODE T.L. C 32.400 106.370	T, SPEED NNOTS REI		26.1	26.8	26.5	25.8		
	WIND DATA DIRECTION SP DEGREES(IN) NA	239.7	257.8	5.450	25/05	247.0		
AT 28	TEED OF SOUND KNOIS	9.929	623•1 623•7	622.4	619.0	618.7	617.6	014.0
UPPLR AIK DATA 2530020569 WHITE SAGUS TARIF 7	DENSITY GM/CUBIC METER	568.H	551.5	542.7	525.9	516.0	507.8 499.8	0.24
-	KEL.HIM. PERCENT	50.5	56.8	52•1 45•4	38.8	30.9	24.00 24.00 24.00 24.00	
r est. MDT	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-22.6	23.6	-25.5	-30.5	-33.7	36.5	•
aby∙oO FEET HSL O700 HRS MDT	TEMP AIR DEGREES	-14.7	-17.1	19.1	-20-1	-21.1	-24.4	ı
. 1.1.1.10e 3yl	ᇎᆲ	422.4	400.8	384.6	381.7	36003	356 · 8 351 · 4	
STAIION ALIITUDE 39 10 Stp. 61 ASLENSION 140. 389		23500•0 24000•0	24500.0	25500 · n	25000.0	27000.0	27500.0 28000.0	

v ALTITUDE 3y89.ru FEET MSL. v el lun no. sug	T NSL MDT	z	MANDATORY LEVELS 2530020569 WHITE SAMUS TABLE 8			.,EODETIC COOKUTIATES 32.4U043 LAI DEG 106.37033 LON LEG
PRESSURE 6	PRESSURE GEOPOTENTIAL	TEMP	TEMPERATURE	KEL . HU	M. WING DATA	A1A Speen
MILLIPAKS	FEET	DEGREES	CENTIGRADE		DEGREES (TN)	KNOTS
850.r	4964	15.9	14.3		347.7	2.5
800 · n	6654.	14.1	12.0	87.		6•13
750.0	84144	13.1	£.4	55.		13.2
700·u	10341.	10.3	2	•8•		6.5
650.0	12348.	5•3	-2.6	50.		4.7
0.009	14478.	••	-5.0	63.		9.1
550.0	16750.	-4-1	-10.9	59•		13.7
500.n	19205.	-6.8	-32.3	11.		1/.9
450.0	21880.	-11.0	-28.4	24.		20.4
0.004	24A11.	-17.8	-24.8	54.		20.0

JEODETIL COOKDINATES 32.40175 LAT DEG 106.31232 LON DEG																									
AIA	HEL . HUM. PERCENT		76.0	77.0	92.0	83.0	82.0	51.0	46.0	55.0	54.0	56.0	92.0	20.0	16.0	0.04	48.0	14.0	43.0	32.0	41.0	14.0	20.0	70.0	56.0
SIGNIFICANT LEYLL DATA LC-37 TABLE 9	TEMPERATUKE AIR DEWPOINE	CENTIGHADE	13.0	10.1	14.3	13.5	14.1	3.0	7.4	7.4	-3.¢	-5.0	-5.2	-23.2	-20.2	-20.5	-19.8	-35.0	4.42-	-28.2	-27.4	6.24-	2.74-	-35.0	-36.7
SIGNIFICAN LC-37 TABLE	TEMPE	DFGREES	17.3	14.1	15.6	16.4	15.1	15.5	13.8	10.6	5.1	2.9	1.4-	-3.5	9.9-	1.6-	-11.0	-13.2	9.41-	-15.3	-17.4	-22.9	-26.7	-31.4	-33.0
mSL IDT		S MSL FEET	4051.4	4083.1	4716.6	5089.7	6355.7	8062.5	9123.2	10490.6	12719.6	13855.3	16599.3	17395.4	19383.8	20257.9	21528.4	22797.5	23658.6	24098.9	24998.6	27786.7	29196.6	31075.2	31882.4
STATION ALIITUDE "1051-37 FEET MSL 19 SEP. 81 0848 HRS MDT ASCENSION NO. 198	PRESSURE	MILIBARS	U82•2	Sn1.2	h•198	0.058	812.4	764.2	735-6	0.007	8.110	61A.0	556.8		0.noc				. 455.5						300.0

STATION ALIITUDL 10 SEP. 81 ASLENSION NO. 1	1 ⁰ 0, 4	051.37 FEET AS	MDT MDT		UPPER Air ULIA 25301.01190 LC-37 TABLE 10	J.: JA		GEODLT: 32. 106.	GEODLTIC COOMDINATES 32.40175 LAT DEG 106.31232 LON DEG
GEONETHIC ALTITUDE MSL FEET	PRESSURE MILLI _{UARS}	TEMP AIR DEGKEES	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEFU JE SOUND KNOTS	WINU DAT DIRECTION DEGREES(IN)	SPEEU ANOTS	INDEX OF REFRACTION
	80.00	.7.1							•
•	2.200	· · ·	0.01	0.07	1001 · 1001	1 - 990) • •	•	1.000302
4200.0	066.1	15.1	12.9	86.9	1042.4	663.6	324.3	1:0	1.000300
0.00 0c	856.7	16.2	13.7	85.2	1019.5	665	324 • 3	2.1	1 • 000298
5500•0	83/•6	16.0	13.0	82.7	1002.4		324.3	3.2	1.000292
0.0009	822.8	15.5	12.5	82.3	986.5		321.5	4.6	1 - 000286
6500·0	800.5	15.1	11.6	79.4	4.076		315.9	6.7	1.000279
7000.0	795.9	15.3	•	70.3	953.3	_	340.5	8.8	1.000268
7500.0	779.8	15.4	7.9	61.2	930.6	665	340.1	11.3	1.000257
Q-000p	65.9	15.5	2•3	52.1	920.5		349.7	12.7	1.000247
820U·J	15. • 3	14.8	4.2	48.9	90003	662.5	350.6	13.7	•
90000	730.9	14.0	2.8	46.6	893.0		357.0	12.5	1.000233
٩٠٥٥٠٢	720.6	12.9	2•3	48.5	880.3	_	356.5	ċ	.00053
100001	9.71/	11.7	2.5	51.8	868.0		348.5	8.8	•00052
10500.0	2.569	10.6	1.9	55.0	855.9	057.5	331.6		1.000224
11000.0	0.780	9•3	<u>.</u>	54.8	844.2	_	310.6	7.8	•
11500.0	***	I • 6	٠. ا	54.5	832.0		307.2	4.0	•
12000.0	1.790	6 • 0	-1.7	54.3	821.2	655.9	303.6	8.0	•
0.00521	0.000	o .	-2.9		809.4	651.4	298.6	8.5	1.000205
0.00001	1.000	0	Ð:?-	0 to 0	7.867	_	270.7	8	•
13500.0	620.5	5		50.4	786.3		6.8/2	9.0	•
D-000141			, r	10. 10. 10. 10.	0.57		200.0	10	1.000194
0.0000	591.7	7 1		71.0	75.5	2.040	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	1.000172
15500.0	580.6	-1-3	L • 4-	77.6	741.0		221.6	9.0	1.000167
-	569.6	-2.6	6.4-	84.1		2-11-9	220-1	10.4	1.000185
-	550.9	-3.8	-5-1	20.1	720.5		220.7	11.4	1.000182
17000.0	548.3	-3-8	-11-3	55.8	707.9		225.0	13.1	1.00011
17500-0	537.8	-3.7	-23.4	19.8	H • #69	639.7	220.8	14.6	
U-DOUGT	0.120	† (24.0	0 /	503.5		250.0	15.6	1.000157
	57.6	7.0-	6.55	1.0	#·2/4		268.3	16.2	C 1000 •
_	700	0.0	2.12.	00	h•1uq	_	2.00.2	ė.	1<1000-1
•	164	0	50.0	19.2	651.0	635	2252	10.0	1.000149
200002	1.884	3 t	-21.7	N (641.0		V-55-5	17.3	1.000149
_	9.9/	3.6	720-1		631.7		225.2	18.	•
Z1000•0	6.60	7.01	14.9	,	621.1		6-162	19.2	1 - 000145
0.00017	1.00.1	0.1	\$ · 6 T -	20.0	610.7		221.5	26.0	1 - 000143
J-00077	T • T C +	71.0	0.000	9 000	000	0.000	1.000	19.7	1.000139
	2 4 4 1)	16.		0.00	2.1.C		0.022	0.00	21000
2,5000.0	6.464	7	2.10-	17.7	77.5	50.7.0 50.7.0 50.7.0	2000	23.62	1.000132
	•) 	2	•	C.T.C	Ş	J	~	27006

EODETIL COUMUINATES 32.40175 LA! UEG 106.31232 LOH UEG	INUEX OF REFRACTION	1.000129	1.000125	1.000120	1.000117	1.000115	1.0001	111000-1	1.000109	10000-1	1.000106	1.000105	1.000103	1.000102
32.401 32.401 106.312	PEED	25.5	24.8	24.3	24.5	20.00	7 P	21.12	20°00	23.7	29.9	30.1	30.8	
	WIND DATA DIRECTION S LEGREES(TN) N	221.0	222.0 226.0	231.9	238.7	245.7	240.7	200.0	24.7	N. ***	245.1	239.2	235.7	
4	SFEED OF SOUND KNOTS	625.9 624.6	623.2	620.7	619.5	614.3	b1/•0	9-519	614.0	614.3	610.7	2.609	9•209	6 06•1
UPPER AIN DATA 2530140190 LC-37 TABLE 10	DENSITY GM/CUBIC METER	562.n 553.1	10 to	526 · H	516.2	509.7	501+3	493.3	ង•ខ្លួង	£ / B • 3	470·8	463.2	455+R	C. 844
5 F	REL.HUM. PERCENT	34.5 36.0	41.0	31.3	26.5	21.6	16.8	14.9	17.0	19.2	28.1	41.4	54.7	68.0
T "SL MDT	T OE	-27.3	-27.4	-32-1	-34.6	-37.5	2.05-	-42.8	-45.7	-45.1	-40+3	-37.7	-36-1	-35-1
1+37 FEE 1848 HRS	TEMPERATURE AIR DEWPOIN DEGREES CENTIGRA	-15·1 -16·2	17.4	19.6	100-1	-21.3	-22.3	-23.5	-24.8	-26.2	-27.5	-28.7	-30.0	-31.2
111 ^U OL ⁴ 05 0 40. 198	PRESSURE HILLIDARS	410.5	0.004	383.9	370-1	360.5	361.0	353.6	340.3	33%5	332-1	325.1	310.3	311.6
STATION ALITIUDL "051.37 FEE" 10 SEP. 61 0848 HRS ASCENSION NO. 198	GEUMETRIC ALTITUDE MSL FEET	24000 · C	25000.0	0.00002	26500.0	27000.0	27500.0	28000·0	28500.0	29000.0	29500•0	30000.0	30500.0	31000.0

196 0848 HRS MDT 196 0848 HRS MDT TABLE 11 PRESSURE GEOPOTENTIAL TEMPERATURE HEL-HUM. WIND DAMINELLIDARS FEET DEWPOINT PERCENT DECHES (TN) MILLIDARS FEET DEGREES CENTIGRADE 750.0 6779. 15.2 10.6 74. 318.0 750.0 12490. 5.6 -2.9 54. 224.3 650.0 12490. 5.6 -2.9 54. 224.3 500.0 2202711.9 -2.9 54. 222.3 450.0 2202711.9 -2.9 54. 222.9 4400.0 2202711.9 -2.9 53. 224.3 500.0 2819824.1 41. 222.5 500.0 3181827.4 41. 222.5	EODETIC COOKUINATES 32-40175 LAT DEG 106-31232 LON DEG															
196 0848 HRS MDT TC-37 196 0848 HRS MDT TC-37 TABLE 11 PRESSUME GEOPOTENTIAL TEMPERATURE HLL.HUM. MILLIDARS FEET DEGREES CENTIGRADE DEGREE #50-0 6779- 15-2 10-6 74- 318-0 750-0 12490- 5-6 -2-9 54- 294-9 650-0 12490- 5-6 -2-9 54- 224-9 550-0 1935617-4 -27-4 41- 222-9 350-0 248-8 550-0 2819824-1 -42-7 10- 249-2 550-0 2819824-1 -42-7 10- 249-2 550-0 3422-5 550-0 2819824-1 -42-7 10- 249-2	EODE T1C 32.4 106.3	DAIA			D• <	6•/	13.5	7.1	9.5	8.8	12.8	16.6	14.8	2,101	24.0	3
196 0848 HRS MDT LC-37 196 0848 HRS MDT LC-37 TABLE 11 PRESSURE GEOPOTENTIAL TEMPERATURE MILLIUARS FEET DEGREES CENTIGRADE #50.0 6779. 15.2 10.6 750.0 6779. 15.2 10.6 750.0 12490. 10.6 1.9 650.0 12490. 5.6 -2.9 650.0 12490. 5.6 -2.9 650.0 12490. 5.6 -2.9 650.0 12490. 5.6 -2.9 650.0 12490. 5.6 -2.9 650.0 12490. 5.6 -2.9 650.0 12490. 5.6 -2.9 650.0 193563.9 -2.4 950.0 2495617.4 -27.4 350.0 3181827.4		•		•	324.5	318.0	356.8	332.2	298.6	244.3	224.3	232.0	556.6	222.5	246.5	·
PRESSURE GEOPOTENTIAL TEMINALLIBARS MDT PRESSURE GEOPOTENTIAL TEMINALLIBARS FEET DEGREES #50-0 6779- 15-2 750-0 6779- 15-2 750-0 10480- 10-6 650-0 12490- 5-6 650-0 12490- 5-6 650-0 12490- 5-6 650-0 12490- 5-6 650-0 2202711-9 400-0 2202711-9 400-0 2202711-9 350-0 3181824-1	t,tLS 98			Č		**	• • •	22.	54.	·oy	63.		34.	41.	10.	4
PRESSURE GEOPOTENTIAL TEMINALLIBARS MDT PRESSURE GEOPOTENTIAL TEMINALLIBARS FEET DEGREES #50-0 6779- 15-2 750-0 6779- 15-2 750-0 10480- 10-6 650-0 12490- 5-6 650-0 12490- 5-6 650-0 12490- 5-6 650-0 12490- 5-6 650-0 2202711-9 400-0 2202711-9 400-0 2202711-9 350-0 3181824-1	ANDATORY L 25301401 LC-37 TABLE 11	ERATURE DE-DO-THIT	CENTIGRADE	13.5		a :	•	6•I	6-2-	/· •	8.6-	-28.5	9.42	-27.4	-45.7	-38.7
198 A	Σ	TEMP	DEGREES	16.4	15.0	10.7	300	3	6		7.7			*	[++2-	-33.0
198 A	T 4SL MDT	E OPOTENT I	FEET	5086.	6779.	8577.	10480	12400	14623	16897.	19356.	22027	24956	28198.	1010	31010
	ALIITUDL 4051.37 FEE 81 01 110. 198 0848 HRS	PRESSURE 6	MILLIDARS	⊬50•n	900.0	750•G	700-0	650.n	0.009	550.4	500.0	450.0	¢00*	350.0	0.00	

JLODETIC COURDINATES 32.40043 LAT DEG 106.37033 LOM DEG																																						
OATA	REL.MUM. PERCENT		93.0	93.0	2.0	0.20		52.0	54.0	29.0	0.48	2 4. 0	63.0	13.0	0.41	0.47	28.0	42.0	14.0	19.0	n•6#	36.0	35.0	13.0	0.01	0.90	0.40	58.0	0.11	28.0	34.0							
SIGNIFICANT LEVEL DESSON SESSON SESSO	1.1	CENTIGRAUE	14.5	5° 51	* * * * * * * * * * * * * * * * * * *	1	2.0	1,5	-5.1	٩٠	3°.	-21.0	201-	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16.6	-24.7	-24.0	-21.3	-33.B	-31.3	-21.9	-28.9	-69.1	7.031 1	7 40 -	35.4	4.05-	-57.9	-41.7	7454-	さったまし							
SIGNIFI 2 WH TA	TEMP AIR	DFUKEES	15.6	15.6		15.1	13.9	11.0	5.4	2.6	5°5°	# L	٠. د د د د د د د د د د د د د د د د د د د	0 1	-6.4	7.7-	9.6-	-11.0	-11.8	-12.5	-13.5	-17.5	-18.0	10.9	-27.B	-31.1	-31.9	-32.5	-33.7	134.7	9.00	45.50	-58-	-65.3	-66.4	9.69-	-70-1	-65.3
ત્ર ⊬	GEOMETAIC ALTITUDE		3989.0	4343.8	4 90C+	3303.4	9145.7	10386.4	12855.2	14018.6	16497.9	17109.8	6.66611	19764 6	19295.1	20034.3	20931.7	21466.9	22270.9	22681.4	23120.9	24917.9	25352.7	25819.5 20060 #	29542.9	30501.3	31446.1	31799.8	32425.7	32920.4	34917.4	40798.6	4270A.3	45897.4	46708.2	50965.9	308	54528.0
3y89.no FEET ASL 0 0900 HRS MDT	HRESSURE	MILLIBARS	880.7	869.0	0.000	761.0	732.2	700.0	639.2	612.0	0.750	20°00'	5.0.4	1010	20000	485.8		459.2		437.6	430.0	400.0	0.065	347.0	3.40.6	317.2	304.6	300.0	292.0	285.8	2501.8	0.007	182.6	156.2	150.0	121.0	107.4	101.0
STATION ALIITUOL 398 10 SEP. el Ascension ao. 590																	•																					

15.5	Ē
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3989.00	200
LTITE	5
STATTON ALTITUDE	ASCENSION

..EODLT.C COOKUIWATES 32.40U43 LAT DEG 106.37033 LON DEG

۸۱۸۷	HERCENT	
SIGNIFICANT LEVEL DATA 25300,0550 WHITE SANUS TABLE 12	TEMPERATUKE AIR DEWPOIN1 DEGREES CENTIGKAUE.	-66.2 -66.8 -61.0 -50.7 -52.4 -50.8
89.n0 FEET MSL 0900 HRS MDT	PHESSURE GEOMETRIC ALTITUDE MILLIHARS MSL FEET	100.0 54727.5 88.6 57145.3 80.0 59208.1 70.0 61945.7 50.0 68935.1 40.4 73451.8 32.0 76453.2

STATION ALTITUDE 39	.TITUDL 39	89•no FEET ™SL 0900 HRS MDT	TSL MOT		UPPER AIN DAT 2530020590 WHITE SANDS	UNTA 90 US		,£00£T ₁	LEODETIC COOKUTHATES 32.40043 LAT DEG
ASCEIUS I ON	10. 590				TABLE 13	ı		106.	3
GEONE TRIC	PRESSURE	Ξ	TEMPERATURE		DENSITY	Speen of	"IND DAT	7	Inclx
ALTITUDE MSL FEET	HILLIBARS	AIR Degrees	DEWPOINT CENTIGRADE	_	J	SUUND NIOTS	DIRECTION LEGREES(TN)	SPEEU KNOTS	OF REFRACTION
3989.0	880.7	15.6	14.5	93.0	1055.0	50	•	•	0120001
	8811.04	9.6	14.5	63.6	1054.6	199	0.07		
4500	8-4-8	8.4	. 4	و دو دو	2 4 6 6				0100001
2000	844.5	9.91	7 - 7	86.9	1013.9	665	320.0	3	1.000300
5500.0	834.4	16.0		3-35	0.860		3.054	· -	
0.0000	415.7	3.0	12.4	81.9	987.7		314.5	10	
6500.0	800.1	15.4	11.0	75.1	196	_	310.0	0.6	
7000-0	4.06€	15.3	•	4.89	0.646	_	342.6	10.6	1.000266
7500.0	770.0	15.2	7.9	61.7	933.0		335.9	11.7	
4000g	763.0	15.1	6•1	55.0	917.8		345.9	12.6	1.000248
8500·n	コ・アコノ	14.6	†• †	50.4	903.4	666.3	354.5	12.7	
0.000g	730-0	14.1	2.7	46.2	989	661.5	359.0	12.1	1.000232
9500.0	72%	13.1	2.0	47.0	876.5	660.3	†• •	11.0	1.000228
10000-0	6.607	11.9	1.8	49.8	864.3		555.3	9.B	1.000225
10500.0	1.760	10.7	1.3	52.1	852.3		340.8	9.1	1.000222
11000.0	t • † 20	9.6	寸 •	52.5	840.5	_	327.5	9.4	1.000217
11500.0	61/9	i (1	i.	52°9	828.4	_	313.0	8	1.000213
0.00021 (059.0	S .		534.3	816.7	653.5	308•1	7.9	1.000208
0.00021	04/10	~	2.2	53.	805.2		303.4	7.6	1.000204
0.000 t	60,000	T • C	0.6	24.0	79.5.B	_	244.0	0.7	
14000+0	617.0	,	14.6	0.00	771.5	040 7.7.7.7.	7.007		761400-1
14500-0	6.009	7.4	-4-7	63.9	750.4	_	750•1	8.7	
150000	589.6	٠,	8.4-	68.9	749.4	_	242.1	10.0	
15500.0	570.5	-1.0	-5-1	73.9	730.0		232.9	10.7	1 - 000106
10000	56/.6	-2.3	3. 3.	79.0	728.0	_	225.1	11.4	
17.00.0	20.700	0 · 0	8.61	82.0	9./1/		0.627	12.9	
0.001/1) (113.5	24.62	7.007	2.040	260.4	ก น ชา	
10000-0	523.7	1 2 3	-10.6	20.00	2009		250.07	20.01	\$41000°1
18500.0	515.7	-2•0	-28.8	13.3	669.5	_	0.627	16.8	
19000.0	502.8	-5.3	-21.6	27.3	658°5		31.3	17.2	1.000152
19500.9	0.064	-6.8	-18.5	38.5	648.0		254.1	17.7	1.000152
200000	480.5	-7.6	-24.5	54.9	637·B	_	7.55	18.1	1.000147
20500-0	477.0	-8-7	9.47	26.1	657.9		234.1	18.2	1.000144
27000F	461.1	8•6−	-24-1	29.8	618.3	632.5	254.0	18.6	1.000142
21500.9	450.6	-11.0	21:	ċ	60	_	254.6	19.0	1.000142
22000.0	0 • C = 1	-11.5	23	m,	ייט	_	433.6	20.5	1.000137
0.00577	•	-15.5	-32.3	•	588.2	629	4.262	21.5	1.000133
>2000- 5	432.1	-13.2	•	40.7	578·0	620.3	56,30	22.3	1.000134

DETIC CODIGITIATES 32.40043 LAT DEG 106.37033 LON DEG	INUEX OF REFRACTION	1.000132	1.000127	1.000121	1.000118	1.000114	1.000110	1.000109	1.000107	1.000105	1.000104	1.000101	1.000099	1.000097	1.000004	1.000092	1.000090	1.000069	1 - 60008 /	1 - 0000kg	1.000082	1.000001	1.0000%	1.0000	1.0000/	1.00000	1.00007	1.00001	1.000070	1 - 0000069	1.000008	1.000006
	SPEEU NOTS	23.1 22.8	22.6	22.1	23.6	25.3	28.1	28.5	20.0	30.7	31.4	32.0	32.9	35.1	36.2	37.3	37.7	37.6	57.5 1.7.	36.8	36.1	34.8	33.8	C++0	35.0	0.00	32.8	31.8	31.1	31.7	32.7	33.2
	WIND DATA DIRECTION SI LEGRESCIN) K	226.4 225.U	254.2	2012	242.7	8.842	2.4.2	0.157	7.40° /	258.5	235.8	233.3	235.2	200	232.3	4-167	5-20 · T	\$-82.2 5.55.5	260. 200. 200.	225-1	2522	****	223.1	1 - 1 - 2 - 2	2007	224.7	255.1	2:1.1	J-065	232.6	1.055	2500.9 23d.3
A	SOUND NOTE	027•11 025• 6	2-470	_	619.3	61710	010.0	-	612.3	_		_		6.000					595.1													572•1 570•5
UPPLR ALICE LATA PS30020590 WHITE SALIDS TABLE 13	DENSITA GAZCUBIC	569.to	552.0	53.50	516.7	500.5	492.3	494	4.60.4	6.294	456.4	447.5	8.9R#	1.104	416.4	#•60#	405.6	2.00 H	100 V 0 V 0 V 0 V 0 V 0 V 0 V 0 V 0 V 0	370.	370.0	363.4	357.0	9.000	3 * 3 * 5 * 6 * 6 * 6 * 6 * 6 * 6 * 6 * 6 * 6	332.1	3000	320.7	315.0	309.2	303.5	297.9
J	EL.HUM. PERCENT	46.3 #2.6	39.0 35.8	28.1	13.4	13.7	14.0	14.7	10.0 0.0 0.0	49.8 49.8	66.0	6.49	63.1 7.5		37.8	36.8	35.8	34.8	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	•												
T HSL MOT	TEMPERATURE R DEWPOINT LES CENTIGRADE	-23.3	-27.2	-32.2	-41.3	140.0	0.03-	144.2	0.44.1	-36.5	-35.3	-35.9	-36.6	1.60	144.0	-45.5	6.94-	2.84-	157.6													
J89+r0 F _{EE} T MSL 0900 HRS MDT	TEMP AIR DEGKLES	14.3	-16.6	8.00	-20.5	-21.6	23.9	-25.0	7.7.7	1000	-31-1	-31.5	132.0	6-5-6-	34.9	1.96-1	-37.3	138.6	27.0	42.5	-43.7	8.44-	0.00	T • 2		9.0.1	-51.8	6.25-	-24.1	-55.2	100	-58.7
ს _{ილა} კ	PRESSURL MILLIBARS	423.5	#0c.8	390.6	374.9	367.2	352.3	340-1	331.0	324.0	317.2	210.0	4.70°	29101	284.8	274.6	272.6	260.6	250•1	249.4	243.B	230.5	2070	2000	21/10	21/03	201.5	202.8	196.1	1930'	6.001	180.0
5741104 ALITTUDE 10 5EP. 81 ASCENSION 40. 5	GEUNETRIC ALTITULE MSL FEET	23500·0 24000·0	24500.0	25.50	26500.0		0.00UR>	24500.0	29500.0	300000	30500.0	31000.0	320000		33000.0	33500.0	24000-0	34500 • 0	35500.0	300000	30500.0	3/000-6	0.000 AF	300000	3-00065	34500.0	*0000+	40500.0	41000.0	41500-0	•	43000.0

** AT STAYT GHE ASSIMED RELATIVE HUMIDITY VALUE WAS USED HIS THE INTEMPOLATION.

1 MF 0000000	PRESSURE MILLIDARS 170-7 170-7 167-3 167-3 167-3 167-8 150-4 151-6 144-1 144-1 144-1 144-1 144-1	TEMPERATURE AIR DEMPOINT DEGREES CENTIGRADE		DENSITY			ı	
445500.0 44500.0 45500.0 45500.0 45500.0 47500.0 47500.0	175.7 167.9 167.9 166.9 155.9 151.0 144.0 137.0		REL.HUM. PERCENT	ر	SPEED OF SOUND KNOIS	WIND DATA DIRECTION S DEGREES(IN) N	TA SPEED KNOTS	THUEX OF REFKACTION
44000.0 44500.0 45500.0 45500.0 45500.0 47000.0	171.4 1667.5 1165.2 1157.3 1147.8 1140.5 1137.0	-69•B		286.8	569•0	3,36,4	32.0	4.0000.1
44500.0 4500.0 45500.0 46500.0 4700.0	1667.3 1657.3 1557.3 151.6 147.6 137.0	-61.0		281.4		235.2	30.8	1.000005
45009.0 45500.0 46500.0 47000.0 47500.0	166.4 150.4 150.4 141.6 14.7 14.0 13.7 13.7 16.0	-62.1		276.1		233.5	30.2	1.000001
45500.0 40000.0 40500.0 47000.0	1554.0 1554.0 1554.0 144.0 134.0 134.0	-63.2		270.9	-	234.2	29.9	1.000000
40000.0 40000.0 47000.0	150.4 151.6 147.8 140.5 137.0	1.49-1		265·H		238.1	30.1	1.000059
40200.0 47000.0 47500.0	151.0 147.8 140.5 137.0	165.4		260.6		<41.b	30.2	1.000058
47000-0	147.0 140.5 137.0	I.99_		255.0	560·6	24242	30.1	1.000057
ii - 000	137.0	166.6		5.64°		247.6	29.5	1.000056
	137.0			242.5		0.00×	28.0	1.000054
0.000ct	133.6	16.7°7		227.0		9.107	26.5	1.000053
49000) (16801		227.0	5.000	707	4.40	20000-1
49500.0	150.5	- KB - S		221.0		7.04	6.00	
200000	127.0	6-89-		216.7		Hours.	2007	1.000049
50500.0	123.9	-69.5		211.6		40165	19.0	
51000.0	120.8	-69.6		200.7		224.2	18.1	1.000046
51500.0	. 11/.8	-69.1		201.6		218.0	18.7	
52000.n	114.8	169.8		196.7		412.4	20.5	1.00004
52500.0	111.9	6.69-		191.8	555.4	216.0	18.4	1.000043
53000.0	ġ,	0.07		187.1		217.8	15.9	1.000042
•	•	5-69-3		181.8		226.4	12.3	1.000040
D.000+C	•	±-19-		175.6	-	2.0.5	8.7	1.000039
04200	101-1	165.		169·c		5.47.7	4 - 1	1 - 000038
	0.00			1001		7.	91	1.000057
3.500 cc	30.5	# · · · · · · · · · · · · · · · · · · ·		162.1		0.00 0.00	7.3	1.000036
•	95.6	-66.5		150.2	-	ع ا ا	9. 8.	1.000035
J•00500	41.0	-66•6		154.4		107.1	10.7	1.0000.1
	2.68	£-09-		150•6	559.1	119.	10.2	1.000034
0.005/5	8/.1	-65.9		140.3	5000	129.9	8·8	1.000033
•	84.9	-64.6		141.9	56.2.5	130.4	6.5	1.000032
28500.0	84.9	163.4		137.0	504.2	131.1	4.5	1.000031
59000·c		-62.1		133.4	-	1,56.5	5.2	1.000000
29500.0	76.9	-61.5		129.8		145.0	6.9	1.000029
0∙00 0000	77.0	-61.3		126.6		37.4	11.6	1.0000
0.00500	n	-61.2		123.4	2.195	64.3	13.7	1.000027
0.0001a		-61.0		120.4		42.5	14.6	1.000027
0.1500.n	71.5	8-09-8		117.4	561.h	0.5°	13.8	1.000026
55000·0	69.8	-t.0.7		114.5		46.7	13.5	1 - 000025
0.5500.0	50.5	-60.3		111.0		0∙ Ω	14.0	1.000025
0.300A • P	60.5	160.0		106.0	•	87.7	14.6	1.000024

EODETIC COUNTINATES 52.40043 LAT DEG 106.37033 LON LEG	INUEX OF REFRACTION	1.000924	1.000023	1.000022	1.00002	1.000021	1.000020	1.060020	1.000019	1.000019	1.000018	1.000018	1.000017	1.000017	1.000016	1.000016	1.000016	5.0000.5	1.000015	1.000014	1.000014	1.000014	1.000013	1.000013	1.000013	1.000012	1.000012	6100001	1.000011
EODE T. 32, 32, 106,	SPEEU KNOTS	15.1	16.6	17.2	1.61	12.3	13.4	13.5	11.2	5. 6	8.7	31	10.5	12.1	14.0		20.0	20.00	21.7	23.4	25.5	25.9	25.9	25.6	24.7	23.9	23.3		
	WIND DATA DIRECTIO, SI DEGREES(TN) R	90.5	6•66 6	3.801	124.1	119.5	112.9	107.4	100.1	85.8	7.89	0.02	7	70,	77.4	8 4.05	35.00 0.00 0.00	85.4	4.69	h• h6	101.3	101.7	102.3	103.0	107.9	111.6	110.0		
۲	SPLEU OF SOUND NNO IS	5.695	509.6	570.0			271.7	572.2	572.6	575.0	573.4	573.9	#	010.0	0.070	72075	577.5	577.8	578+3	570.8	579.1	579.3	579.5	579.7	579.9	7.08¢	580.3	2.083	580.7
UPPER AIR UNTA 2530020590 WHITE SHADS TABLE-13	DENSITY S GM/CUBIC METER	106.0	103.3	1001	95.7	95.3	6.06	98.6	\$0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2.48	82.1	0.00		7.00	72.4	7.00	68.7	6.99	65.2	63.0	62.1	c.00.	24.6	57.H	36.4	32.	53.8	52.5	51.2
	FEL.HIM. PERCENT																												
398yon BEET ₁₁ 5L 0900 HRS MDT 0	1EMPERATURE AIK DEWPOINT DEGREES CENTIGRADE	-59.7	1,001	-58.7	₽.58• 4	1.84	0.74	-5, c4	40.0			1, 2, 1			•	•	-53.6	-53.2		1000	2.20	1.70	7 T T	7 · F · F		•	5•14 <u>1</u>	1.15_	
3984. 0900 90	ች %	0 3				• •		٠	_		. ~		·	_	,		•	_	o +) =	- 4	, <u>.</u> c					u 12	, r) - -
.TITUDE.	PRESSUI MILLI _D AI	65.0			35.	ה ה	9		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	51.6	2	3	* / *	7.03	42.	•	47.4	3	- C		5		5	*			ָרָ רָלְיּ	ָרָ רָּי	ž
STATION ALTITUDE 10 SEP. 61 ASCENSION 140. 5	GEOMLTRIC ALTITUDE MSL FEET	93500°C	0.000	02000 c	0.5500.0	Ú-60000	67000.0	0.00479	0.0000	08207	0.00060	0.60369	70000.0	70500.6	71000.6	7.00517	72,100.0	73500.0	0.0000	740000	0.0004/	7500000	0.0044	0.0007	700,00	7,000,7	7.000.7	3-000-7	J•60000

"EODETIC COORDINATES	32.40043 LAT DEG	106.37033 LUN DEG
FIATIDATOPY LLVLLS 2538020590	WHITE SAILUS	TABLE 14
STATION ALITIUDE 3989.00 FLET SE	10 SEP. 6.1 0900 HRS MDT	,

DA IA SPEED		7.5	7.6	12.7	4.5	7.7	8.0	19	17.5	20.1	2,.3	20.5	3,03	30.9	31.4	31.8	30.0	14.5	3.4	5•5	1,04	14.8	3.5	23.9
MIN, DAIA	DEGREES (TN)	320.0	317.0	354.0	344.0	304-1	6.467	226.1	232.9	233.7	220.4	253.0	235.1	225.1	228.7	236.0	240.5	254.1	309.0	138.0	P. 08	123.8	7012	96.3
KEL . HU.4.		87.	7.5•	51.	54.	54.	64.	55.	***	24.	30.	14.	58.											
TEMPERATURE R DEMPOINS	CENTIGRADE	14.4	10.5	4.5	1.5	-2.7	2.4-	-11+3	-16.0	-27.9	-28.4	-43.7	-37.9											
₹	v	16.6	15.4	14.6	11.0	†•9	1.3	-3.5	1.9-	-11.5	-17.5	-24.2	-32.5	1.21-	-53.6	-60.0	-66 · 4	-69-1	-66.2	-61.6	-60.7	-58.6	-56.2	-52.3
PRESSUNE GEOPOTENTIAL	FEET	4979.	. 47.99	8471.	10376.	12390.	14527.	16805.	19268.	21944.	24876.	28117.	31736.	35871.	. 6690 +	43475.	465A1.	50179.	54557.	59011.	61731.	64894	68074.	73369.
PRESSUME GE	MILLIPARS	A50.1	A00.	750.0	7007	6.50.0	600.0	550.n	500·n	0.024	0.00 ti	350.0	300.0	250.0	200·n	175.0	150.0	125.0	100.	80.0	70.0	60.n	50.0	40.0

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALILE HAS USED IN THE INTERPOLATION.

JEODLTIC COOKUIIIATES 32-40175 LAF DEG	100.31232 LUN DEG																								
. 1 4.		REC. HUM.	בייריי	86.0	.91.0	0.69	01.0	61.0	57.0	53.0	46.0	0.09	57.0	75.0	25.0	14.0	39.0	0.40	13.0	0.60	25.0	21.0	14.0	14.0	58.0
SIGNIFICANT LLVLL DAIM P530180199 LC-37	TABLE 15	TEMPERATUKE IR DEWLOTAT	DEGREES CENTICHADE	15.8	14.9	13.6	13.7	11.6	0.0	بر. ج	3.		-3.t	9-9-	-20.6	-20.5	-16.4	9.51-	-32.9	6.01_	8.62-	す。までし	-41.5	-46.1	136.8
SIGNIFIC	TA	TEMPE	DEGREES	18.2	16.4	15.6	17.0	15.0	15.0	13.7	10.6	8•0	4.1	-3.0	-3.t	-5.0	-6.8	-8.2	-9.7	-12.4	-14.1	-17.4	-21.2	-26.8	-33.4
15L		GLOWETHIC ALTITUDE	NST FELT	4051.4	4273.1	4589.5	5008.5	6594.5	7967.7	8326.2	10403.2	11234.0	13099.9	16165.0	16971.2	18203.5	19293.0	19973.3	20700.4	22015.9	23321.5	24907.5	26895.0	29247.2	31791.9
ALITIUDE 4051.37 FEET MSL 0.1 100 HRS MDT 199		PRESSURE	MILLIUNKS	819.5	872.6	862.8	850·0	803.2	764.6	754.8	70··0	0.629	633.6	264.2	247.0	521.6	200.0		473.2		#26·4				300.0
ALTITUD 61 84 60.																									

STATION ALTITUDE 4051.37 FEET MSL 10 SEP. 81 1000 HRS MDT ASCENSION NO. 199	™SL IDT		-	UPPER AIR ULT 2530100199 LC-37 TABLE 16	4 L 44		υΕΟDEΤΙ 32. 106•	6EODETIC COOKDINATES 32.40175 LAT UEG 106.31232 LOH UEG
PRESSURE TEMPERATURE REL AIR DEWPOINT PER	N T	KEL PER	REL.HUM. PERCENT	DENSITY GM/CURIC	SPEED OF SOUND	WING DAT	SPEEU	INUEX
4-3- 6-6-		9	•					NOT LOW IS
0 CT 2 OT	0 .	0	• ·	C+C+01	_	0.01	•	•
850.5 17.0 13.7 8	7.5	10 00	81.2	1036-1	004.00	441.55	? 0	1.000304
16.4	3.1	. 00	81.0	9966		314.5		1.000241
15.7 12.5	2•5	20	81.0	982.7	_	309.9	4.6	1.000265
15.1 11.9	1.9	₩.	1.0	9.196	_	309.5	6.8	1.000279
15.0 10.4	J•¢	_	3.9	951•3	665.3	316.0	•	•
15.0 8.5	ທໍ	Ö	•	934 • 9	665.1	331.5	9• 6	1.000259
9 6.4	a (ഗ് :	•	919.3	_	542.7	10.8	1.000249
10.4	· ·	ŭ	•	908 · 0		352.5	11.5	1.000240
	2 4	S :	•	894.2		328.5 5.5	11.8	•
9.1	٠.	* :	.	ס) .	12.0	1.000228
10.3	, "	- 1	• (65/02/03	658•(j	n 4	2.5	1.000223
8.7	, ru	56) =	1 1		452,	7.8	1.00001
3 7.4 •1		Ň	9.6	831.8	653.7	328.6	6.9	1.000215
6.4 -1.1		S	8.8	819.8		505	•	1.000210
-2.5		וכש	0.0	807.9	-	0.462	8.5	1.000205
オ・ドリー ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	.	47 (2.5	790.2	-	79P.	•	1.000201
	.	ny	? r	9.40/		219.3	ໝູ່ ຄຸດ	1.000197
6.4- 6.	+ D		65.2	761.9	647.1	2000	\$ 0°	1.00014
1.5- E.1	.	_	68.2	750.9		6.0%	11.0	1.000168
-1.5 -6.0		•	71.1	740.0	643.0	230.0	12.2	1.000185
9-9-	9.9-		0.4.	729.3		235.7	13.4	1.000162
1.11-	11.1	ירט	54 010	717.4		7-567	F - 57	1.000173
7.021 t.01 t	. 02 . 04 . 04 . 04 . 04 . 04 . 04 . 04 . 04	7	. /	2.007		201.5	10.1	1.000163
C-C2 1-1-1	6.02	v -	פיני	6,000	2.600	7.707	1.01	601000-1
	40.00	4 6	1	670.7		2 4 4 5 5	7.4	CCTADO
	1000	, ×				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	101	#C1000 1
2.02	7.07	Š :	? `	9.60		7	101	1.000123
1.52 -1.6.7 46	97	9	۰	•		253.1	17.2	1.000153
-8.3 -14.2	Q I	9	-	36.	_	231.4	•	1.000153
.9 -9.3 -24.7	24.7	N	7.1	•		229.1	•	1.000145
-6 -10-3 -26-2	26•2	æ	5.8	619.4	_	220.0	19.3	1.000142
5 -11.3 -20.4	20.4	_	47.0	609		229.4	:	1.000142
5 -12.4 -17.0	17.0	_	68.3	66	629.5	4.652	23.0	1.000143
40.0 -13.0 -20.6	50.6		ů.	584.5	058•6	259.1	ŝ	1 • 00 11 38
-13-7	ζ,		35.8	574.5	627.7	220.4	25.9	1.000133
	•		•	5696	620.7	555.9	ė	1.000130

DETIC COONDINATES 32.40175 LAT DEG 106.31232 LON DEG	INUEX OF OCT 1004 1.000127 1.000123 1.000123 1.000121 1.000114 1.000116 1.000110 1.000110 1.000100 1.000100 1.000100
"EODETIC COONDIMATES 32.40175 LAT UEG 106.31232 LON UEG	PEEU NOTS 25.2 23.3 24.3 24.3 24.3 27.2 26.0 30.0
	WIND DATA DIRECTION S 221.0 2219.0 229.1 229.1 241.7 241.7 249.0 249.0 249.0 249.0 249.0 249.0 249.0
۹ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲	SPEEU OF SOUND KNOTS KNOTS COUND KNOTS COUND COUND COUNTS
JI'PER AIN UNTA 2530180199 LC-37 TABI.E 16	DENSITY OM/CUBIC SOO SOO SOO SOO SOO SOO SOO S
э .	PER
T ≤SL MDT	TEMPERATURE R DEWPOINT EES CENTIGRADE -5 -31.7 -6 -34.7 -6 -34.7 -6 -42.7 -6 -42.7 -6 -42.7 -6 -42.7 -6 -42.7 -7 -42.7 -6 -42.7 -7 -4
+051+37 FEET MSL 1000 HRS MDT	7 E E E E E E E E E E E E E E E E E E E
117UDE 405 10. 199	PRESSURE 411 LIGARS 414.9 406.6 396.5 396.6 396.6 396.6 396.6 396.8 396.8 396.8 396.8 396.8 396.8
STATION ALITIUDE 4 10 SEP. B1 ASCENSION 40. 199	GEUME TRIC ALTITUDE MSL FEET 240000 2550000 2550000 2750000 275000 2750000 2950000 39050000 3100000

FION ALITTUDE 4051.37 FEET MSL SEP. 61 INSIOG NO. 199	.37 FEE		₹.	MANDATORY LLVELS 2530100199 LC-37 TABLE 17	94.ELS		"EUDETIC COOKUINATES 32.40175 LAF DEG 106.31232 LON DEG
PRE	PRESSURE 6 MILLINARS	PRESSURE GEOPOTENTIAL 1LLIMARS FEET (TEMPE AIR JEGREFS C	TEMPERATURE AIR DEWPOINT DEGREFS CENTIGRADE	KEL.HUM. PERCENT	WIND DAIA DIRECTION SPI DEGREES(TN) KN	SPEED SPEED KNOIS
	0.004	5005	17.0	13.7	81.	340.0	6.
	a00a	6700	15.0	11.4	-6.2		9•1
	750.0	8495	13.4	6.6	52.		11.5
	700.0	10393.	10.6	3.	* *		10.7
	650.0	12401.	3.0	-2.0	58.	•	7.0
	600.0	14532	60	-5.0	•\$9		0.01
	550.n	16807		-17.0	34.		6•*1
	2002	19266	8.9	1.8.4	39.		6.01
	450.0	21937	-12.3	-17.1	• 29		22.8
	400	24865	-17.4	オ・カビー	21.	222.9	23.6
	150.0	28107	-24.2	0.55-	14.		20.9
	V-00%	51728.	-33.4	-38.8	58.		

A A	REL.HUM. PLACENT	74.0 75.0 85.0	8889 8889 9889 9889	50000000000000000000000000000000000000	230.0 61.0 61.0 61.0 61.0 7.0 7.0 7.0 6.0
SIGNIFICANT LLVLL DAIA 2530180200 LC-37 TABLE 18	TEMPERATURI IR DEWPOINT REES CENTIGNAUE	15.7	115.6 11.0 12.0 14.1	11711111111111111111111111111111111111	120.7 120.7 120.7 120.7 120.7 130.7 130.7 130.7
SIGNIFIO	TEMPI AIR DEGREES	20.5 19.8 17.0	0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	202489 303489 503489 503489 503489 503489 503489 503489 503489 50348 503	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
MSL IDT	E GFOMETRIC ALTITUDE S MSL FEET	4051.4 4291.5 5020.0	5971.3 6986.6 7340.3 7691.9	12041.4 13917.8 14291.8 16244.3 17051.1 18274.9	19304.5 19926.5 20359.0 20176.1 21198.8 22225.7 22515.1 24923.9 29334.6 29807.7 30287.9
51.37 FEET WSL 1100 HRS MDT	PRESSURE MILLIHAKS	879.6 872.2 850.0	821.6 792.2 782.2 772.4	650 616 606 562 562 510 610 64 64 64 64 64 64 64 64 64 64 64 64 64	00000000000000000000000000000000000000
STATION ALIITUDL 4051.37 10 SEP. 81 ASLENSION 140. 200					
ST NO NO NO NO	٠				

GEODETIC COORDINATES 32.40175 LAT DEG 106.31232 LOM DEG

STATION ALTITUDE 10 SEP. 61 ASCENSION NO. 2	^U DL 4 ≥00	051.37 FEE 1100 HRS	FEET MSL HRS MDT		UPPER AIN D., TA 2530160200 LC-37 TABLE 19	¥ 200 -1		JEODETIC 32.40 106.31	DETIC COOKWIMATES 32.40175 LAT DEG 106.31232 LON DEG
GEUMETKIC ALTITUDE MSL FEET	PRESSURE MILLIDARS	0	TEMPERATURE AIR DEWPOINT EGHEES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SHEED OF SOUND KNOTS	WIND DATA DIRECTION S DEGREES(IN) A	SPEED ANOTS	INUEX OF REFRACTION
4051.4	879.6	20.5	15.7	74.0	1035.5	670.5	240.0	1.9	1.000309
4500.0	860.8	19.0	15.0		1024.7	Ī	263.5	0,0	1000001
5000.0	850.6	17.1	10.00		1013.5		1967	2 0	1.000304
5500.0	835.5	15.8	13.6	87.0	1000	4.500	7.660		1.000304
6000·0	820.8	14.6	12.8	•	980.0		1060	6	•
6500.0	800.5	14.5	12.3	86.9	1.696		319.0	6.9	•
7000-	791.8	14.4	÷	84.1	952.9	_	328-0	9.6	1 • 000276
7500.0	7-11-7	15.3	5.9	53.2	934.9	_	342.0	12.0	•
8000.0	763-8	15.4	3.4	44.5	918.6	_	350.0	•	•
8500.0	750.2	14.5	2.3	43.8	8.506	661.9	358.7	12.5	1.000235
0.0006	7007	13.6	F•1	4.00 th	892.1	_	2.7	11.7	•
0.0000	7.0.5	12.0	N C	42.5	8/9.2	_	? .	10.8	•
0.00001	0.0T,	110	, i	41.6	866.5		9 : • .	۳. و	•
110000	687.0		\ . I =	, to	0.408	657.3			•
11500.0	672.7	7.0	70	C - F 5	2.2.0		0.105	• • •	•
12000-0	h•099	6.5		100 H	10100		3174	0 4	1.000213
12500•0	648.2	n at			8087	9.70	2000		1.000211
13000-0	630.2	n.	6.1-	2 2	796.5		19.67		1.000204
13500.0	624.5	3.1	-2.5	66.2	785.0	_	201.3	6.7	1.00020
14000-0	615.9	2.0	-3.6	66.5	773.7	_	250.3	11.0	
14500.0	₩•109	••	-5-4	62.4	762.5		242.6	13.3	1.000190
15000.0	590.1	7.	-5.9	65.7	751.3		236.0	14.6	1.000187
15500.0	0.670	-1.4	-6.3	0.69	740.3		220.1	15.0	1.000184
100001	1990	-2.5	9-9-	72.4	729.5	_	227.7	14.6	1.000162
17000-0	545.7	U	1.6-	62.0	718.5		230.3	13.00	1.000175
175,000	10 to 0	V 4	-16.3	7000	707		230.0	12.6	1.000107
18000	520.0	8 9 9	**************************************	0 0	T. T. C.		7	11.5	•
18500.0	515.9	4	C.C.	201	672	0.000	2.002	•	1.000156
19000-	5000	9.9-	F 200-	10.00	6.079		24.7.65	000	1.000152
19500 • 0	490.5	-7.4	-20.9	12.7	2.096		234.H		2010001
5.00007	480.6	-8.2	-25.2	23.8	639.3		237-1	14.9	7410001
2050r.n	477.1	-9-1	-20.3	39.6	628.4	_	237.4	16.3	1.000.1
21000.c	467.9	-10.1	-20.0	44.1	619.1	032-1	237.5	17.6	1.000145
•	456.7	-11.1	-19.0	51.6	609.1		2.44.5	19.0	1.000143
75000.0	/ · C++	-11.7	-23.7	36.0	598.A		230.4	•	1.000138
•	7.011	-12.6	-24.6	•	589.0		224.7	•	1.000136
•	40.70	å,	•	31.4	579.3		240.3	23.8	1.000133
23200.0	453.3	14.3	-29.3	26.6	569.h	650.4	210.0	-	1.000130

STATION AL 10 SEP. B. NSCENSION	STATION ALIITUDL 40° 10 SEP• bi ASCENSION HO• 200	1100 HRS	E1 MSL IS MDT	_	UPPER AIK UATA 2530160200 LC-37 TABLE 19	Ju TA		EUDET1 .52. 106.	"EUDETIL COUNDIMATES 52.40175 LAT DEG 106.31232 LON DEG	
SEUMETRIC ALTITUDE 1SL FELT	PRESSURE MILLIBARS	TEMP AIR DEGREES	TEMPERATURE R DEWPOINT LES CENTIGRADE	REL.HUM. PERCENT	UENSITY S GM/CUBIC METER	SPEEU OF SUUND NNOTS	#INU DATA DIRECTION S	SPEED KNOTS	INUEX OF REFHACTION	
24000·c	415-1	-15.2	-32-1	21.8	560.4	A.4ca	218-6	56.3		
24500·n	6.004	-16-1	1.55	17.0	20.00	0.000	0.042	7.00	1.00012	
25000.0	396.7	-17.0	-38.7		2.700	100	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.62	1.000124	
75500.0	390.6	1.8.1	40.5		1.2.0	0520	554.4	24.5	1.000122	
260000	347.6	10		2 4	2000	022.5	5.022	5.50	1.000120	
256000	120 B	C . C	C • D • 1	10.0	525.0	020.1	232.6	54.9	1.000118	
3-0002	34.45	20.0	-41·I	13.7	516.7	619.3	237.4	25.6	1.000116	
2.000.2	1000	9.12	7 • I • I	13.9	508.5	617.9	245.6	26.4	1.000114	
0.000.00	30000	22.0	7.24	14.2	500.4	p.010	245.3	26.5	4110001	
2-0005pr	3000	0 - 2	143.5	74.4	492.5	615.0	248.0	26.5	1.000110	
0.00000	1 0 0 P P	2002	す・サ: サ: サ:	14.6	484.7	613.5	245.0	26.5	1.000109	
295.00	0.000	2021	145.2	14.8	477.0	612.1	243.2	26.7	1.000107	
	1016	9.72	######################################	18.1	469.6	610.5	234.5	27.7	1.000105	
0.00000	754.1	-53.0	1.00	32.8	462.4	8.80g	234.0	28.4	1.000104	
0.00cnc	21.0	-30.5	-37.6	48.2	454.9	507.3	228.8	26.2	1.000103	
v.00010	210.0	-31.5	-37.8	53.5	447.6	605.7			1010001	
21200.0	204.0	-32.7	-38.0	58.8	\$ • O p to	7.409			1.000100	
					•	•				001000.1

N ALTITUDE 4. 2. 81 31014 140. 200	N ALTITUDE 4051.37 FEET MSL . 81 .101, 140. 200	r MSL MDT	¥	MANDATORY LEVELS 2530160200 LC-37 TABLE 20	e, t. s. 00	·	.,E00ET1C 32,40 106+31	.,EODETIC COOKUINATES 32,40175 LAT DEG 106.31232 LON DEG
	PRESSURE G	PRESSURE GEOPOTENTIAL	TEMP	ERATURE	nEL . HUM.		A I A	
	MILLIAARS	FEET	AIR JEGREES	DEGREES CENTIGRADE	PERCENT	DEGREES (TN) KN	STEED KNOTS	
	A50.n	5016.	17.0	14.5	85.		3. (
	A00.	6708.	14.5	12.2	86.			
	750.0	8504.	14.5	2•3	* * *		12.5	
	1000	10405.	10.9	-1.8	41.		H•1	
	0.059	12415.	5.5	-1.2	62•		7.1	
	₽.009	14547.	æ	-5.5	63.		13.6	
	550.0	16821.	0.4-	-13.9	40.		13.0	
	500.0	19277.	-7.1	-18.7	39•		1,1.9	
	450.0	21950.	-11.7	-23.5	37.		20.4	
	0.004	24882.	-16.8	-38.6	13.	223.8	24.6	
	350.0	28123.	-54.4	8.E.	14.		20.5	
	4005	11742	7.5	-18.0	629			

